

Title (en)  
WHITE LIGHT EQUIPMENT

Title (de)  
WEISSLICHTEQUIPMENT

Title (fr)  
ÉQUIPEMENT ÉMETTEUR DE LUMIÈRE BLANCHE

Publication  
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Application  
**EP 23177418 A 20110623**

Priority  

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Abstract (en)  
The present invention provides a white light source comprising a blue light emitting LED having a light emission peak of 421 to 490 nm and satisfying a relational equation of  $-0.2 \leq P(\lambda) \times V(\lambda) / P_{\text{max}} \times V_{\text{max}} - B(\lambda) \times V(\lambda) / B_{\text{max}} \times V_{\text{max}} \leq +0.2$ , assuming that: a light emission spectrum of the white light source is  $P(\lambda)$ ; a light emission spectrum of black-body radiation having a same color temperature as that of the white light source is  $B(\lambda)$ ; a spectrum of a spectral luminous efficiency is  $V(\lambda)$ ; a wavelength at which  $P(\lambda) \times V(\lambda)$  becomes largest is  $\lambda_{\text{max}1}$ ; and a wavelength at which  $B(\lambda) \times V(\lambda)$  becomes largest is  $\lambda_{\text{max}2}$ . According to the above white light source, there can be provided a white light source capable of reproducing the same light emission spectrum as that of natural light.

IPC 8 full level  
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